

## UNITED STATES PATENT AND TRADEMARK OFFICE

MM

UNITED STATES DEPARTMENT OF COMMERCE United States Patent and Trademark Office Address: COMMISSIONER FOR PATENTS P.O. Box 1450 Alexandria, Virginia 22313-1450 www.uspto.gov

APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
10/022,055	12/18/2001	Shu-Woei Chiou	A34893	1991
21003	7590 10/17/2003		EXAMINER	
BAKER & 1			CRANE, SARA W	
	ELLER PLAZA , NY 10112		ART UNIT	PAPER NUMBER
	,		2811	
			DATE MAILED: 10/17/200	3

Please find below and/or attached an Office communication concerning this application or proceeding.

	Application No.	Applicant(s)	
Office Action Comments	10/022,055	CHIOU ET AL.	
Office Action Summary	Examiner	Art Unit	
The MAN INO DATE of this communication and	Sara W. Crane	2811	
The MAILING DATE of this communication app Period for Reply	ears on the cover sheet v	vitn the correspond ince address	
A SHORTENED STATUTORY PERIOD FOR REPLY THE MAILING DATE OF THIS COMMUNICATION.  - Extensions of time may be available under the provisions of 37 CFR 1.13 after SIX (6) MONTHS from the mailing date of this communication.  - If the period for reply specified above is less than thirty (30) days, a reply If NO period for reply is specified above, the maximum statutory period w Failure to reply within the set or extended period for reply will, by statute, Any reply received by the Office later than three months after the mailing earned patent term adjustment. See 37 CFR 1.704(b).  Status	6(a). In no event, however, may a within the statutory minimum of th ill apply and will expire SIX (6) MC cause the application to become A	reply be timely filed irty (30) days will be considered timely. NTHS from the mailing date of this communication. BANDONED (35 U.S.C. § 133).	
1) Responsive to communication(s) filed on 24 J	<u>uly 2003</u> .		
2a)⊠ This action is <b>FINAL</b> . 2b)□ Thi	s action is non-final.		
3) Since this application is in condition for allowa closed in accordance with the practice under a Disposition of Claims			
4)⊠ Claim(s) 1-17 is/are pending in the application			
4a) Of the above claim(s) <u>9-16</u> is/are withdrawn			
5) Claim(s) is/are allowed.			
6)⊠ Claim(s) <u>1-8, 17</u> is/are rejected.			
7) Claim(s) is/are objected to.			
8) Claim(s) are subject to restriction and/or	election requirement.		
Application Papers			
9) The specification is objected to by the Examiner			
10)☐ The drawing(s) filed on is/are: a)☐ accep			
Applicant may not request that any objection to the			
11) The proposed drawing correction filed on		disapproved by the Examiner.	
If approved, corrected drawings are required in rep  12) The oath or declaration is objected to by the Ex-		·	
Priority under 35 U.S.C. §§ 119 and 120	armirer.		
13) Acknowledgment is made of a claim for foreign	priority under 35 H S C	8 119(a)-(d) or (f)	
a) All b) Some * c) None of:	priority under 35 0.0.0	3 113(a)-(d) 01 (l).	
1. Certified copies of the priority documents	s have been received		
2. Certified copies of the priority documents		Application No	
Copies of the certified copies of the prior application from the International But     * See the attached detailed Office action for a list of the prior application from the International But	ity documents have bee reau (PCT Rule 17.2(a))	n received in this National Stage	
14) Acknowledgment is made of a claim for domestic	•		
a) The translation of the foreign language pro	•		
15) Acknowledgment is made of a claim for domesti	* *		
Attachment(s)			
Notice of References Cited (PTO-892)     Notice of Draftsperson's Patent Drawing Review (PTO-948)     Information Disclosure Statement(s) (PTO-1449) Paper No(s)	5) Notice of	v Summary (PTO-413) Paper No(s) f Informal Patent Application (PTO-152)	

Application/Control Number: 10/022,055

Art Unit: 2811

## **DETAILED ACTION**

## Claim Rejections - 35 USC § 112

The following is a quotation of the second paragraph of 35 U.S.C. 112:

The specification shall conclude with one or more claims particularly pointing out and distinctly claiming the subject matter which the applicant regards as his invention.

Claims 1, 3-8 and 17 are rejected under 35 U.S.C. 112, second paragraph, as being indefinite for failing to particularly point out and distinctly claim the subject matter which applicant regards as the invention.

Claims 1 and 17, as amended, each recite "a plurality of oxidizable semiconductor layers, wherein each of said plurality of oxidizable semiconductor layer is oxidized . . . . " It is not clear how a semiconductor layer can be both "oxidizable" and "oxidized" at the same time. Examiner understands "oxidizable" to mean "capable of being oxidized." Examiner understands "oxidized" to mean "already oxidized." A material that is already oxidized is no longer capable of being oxidized, because it no longer has the capacity to enter into a chemical reaction with oxygen. For example, a metal such as aluminum is oxidizable, because it can enter into a chemical reaction with oxygen, to form aluminum oxide. Aluminum oxide is *not* oxidizable, because it does not enter into a chemical reaction with oxygen. The claim language requiring a single semiconductor layer to have both properties simultaneously is unclear, and does not appear to correspond to any teaching disclosed in the specification. The claims appear to be attempting to claim an intermediate structure and a final structure at the same time.

Application/Control Number: 10/022,055

Art Unit: 2811

## Conclusion

Applicant's arguments with respect to the pending claims have been considered but are most in view of the new ground(s) of rejection. As noted above, it is not clear whether the claim is drawn to an intermediate structure, prior to oxidation, or to a final structure, after oxidation.

Applicant's amendment necessitated the new ground(s) of rejection presented in this Office action. Accordingly, **THIS ACTION IS MADE FINAL**. See MPEP § 706.07(a). Applicant is reminded of the extension of time policy as set forth in 37 CFR 1.136(a).

A shortened statutory period for reply to this final action is set to expire THREE MONTHS from the mailing date of this action. In the event a first reply is filed within TWO MONTHS of the mailing date of this final action and the advisory action is not mailed until after the end of the THREE-MONTH shortened statutory period, then the shortened statutory period will expire on the date the advisory action is mailed, and any extension fee pursuant to 37 CFR 1.136(a) will be calculated from the mailing date of the advisory action. In no event, however, will the statutory period for reply expire later than SIX MONTHS from the date of this final action.

Any inquiry concerning this communication or earlier communications from the examiner should be directed to S. Crane, whose telephone number is (703) 308-4894.

The fax phone number for this Group is (703) 872-9306.

Application/Control Number: 10/022,055

Art Unit: 2811

22,055 Page 4

Any inquiry of a general nature or relating to the status of this application or proceeding should be directed to the Group receptionist, whose telephone number is (703) 308-0956.

Sara W. Crane Primary Examiner Art Unit 2811